FILE 'HOME' ENTERED AT 15:55:51 ON 10 JUL 2007

=> file registry
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                          ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 15:56:15 ON 10 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 9 JUL 2007   HIGHEST RN 941818-42-4
DICTIONARY FILE UPDATES: 9 JUL 2007   HIGHEST RN 941818-42-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

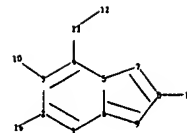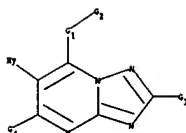TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

    Please note that search-term pricing does apply when
    conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10511774\1051174a.str

```
chain nodes :
10   11   12   15   16
ring nodes :
1   2   3   4   5   6   7   8   9
chain bonds :
2-16   3-10   4-11   8-15   11-12
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   5-7   6-9   7-8   8-9
exact/norm bonds :
1-2   1-6   2-3   2-16   3-4   3-10   4-5   4-11   5-6   5-7   6-9   7-8   8-9   8-15   11-12


G1:SH,SO2,O,S

G2:Hy,Ak,C

G3:H,X,Ak,C

G4:X,Ak,CN

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:Atom   8:Atom   9:Atom   10:Atom
11:CLASS   12:CLASS   15:CLASS   16:CLASS



L1        STRUCTURE UPLOADED
```
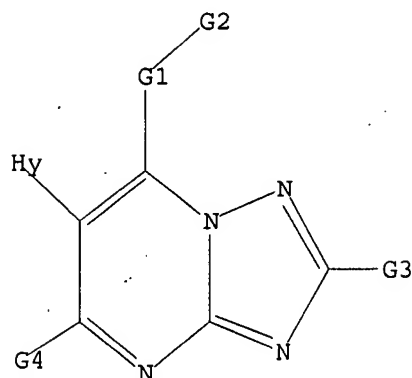
```
=> d l1
L1  HAS  NO  ANSWERS
L1                    STR
```



```
G1  SH,SO2,O,S
G2  Hy,Ak,C
G3  H,X,Ak,C
G4  X,Ak,CN
```

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 15:56:45 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      370 TO ITERATE

100.0% PROCESSED      370 ITERATIONS                        0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         6246 TO      8554
PROJECTED ANSWERS:               0 TO         0

L2             0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 15:56:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     7134 TO ITERATE

100.0% PROCESSED     7134 ITERATIONS                        3 ANSWERS
SEARCH TIME: 00.00.01

L3             3 SEA SSS FUL L1

=> d scan
```
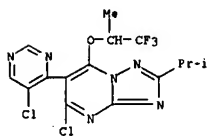
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

```
=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                      ENTRY      SESSION
FULL ESTIMATED COST                                  172.55      172.76
```

```
=> s l3
L4               1 L3

=> d l4 ibib abs hitstr
```

ACCESSION NUMBER: 2004:1154714 CAPLUS
DOCUMENT NUMBER: 142:93844
TITLE: Method for producing triazolopyrimidines and to their
                          use for controlling undesirable microorganisms
INVENTOR(S):   Gebauer, Olaf; Heinemann, Ulrich; Greul, Joerg Nico;
                          Herrmann, Stefan; Guth, Oliver; Elbe, Hans-Ludwig;
                          Gayer, Herbert; Hillebrand, Stefan;
                          Wachendorff-Neumann, Ulrike; Kuck, Karl-Heinz; Dahmen,
                          Peter
PATENT ASSIGNEE(S):   Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl.,,55 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

     PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
     ---------------   ----   --------   --------------------   --------
     WO 2004113341   A2   20041229   WO 2004-EP6369   20040614
     WO 2004113341   A3   20050512
     W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
         CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
         GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
         LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
         NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
         TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
     RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
         AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
         EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
         SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
         SN, TD, TG
     DE 10328173   A1   20050113   DE 2003-10328173   20030624
     EP 1638974   A2   20060329   EP 2004-739853   20040614
     R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
         IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
     CN 1809571   A   20060726   CN 2004-80017546   20040614
     BR 2004011972   A   20060829   BR 2004-11972   20040614
     JP 2007506657   T   20070322   JP 2006-515917   20040614
     US 2006281767   A1   20061214   US 2006-561174   20060606
PRIORITY APPLN. INFO.:   DE 2003-10328173   A 20030624
                                            WO 2004-EP6369   W 20040614

OTHER SOURCE(S):   MARPAT 142:93844
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB   The invention relates to novel triazolopyrimidines I [R1 = (un)substituted
     alkyl, alkenyl, alkynyl, cycloalkyl, heterocyclyl; R2 = H, halogen,
     (un)substituted alkyl, cycloalkyl; R3 = (un)substituted heteroalkyl; G =
     SO; X = halogen, CN, (un)substituted alkyl, alkoxy, alkylthio,
     alkylsulfinyl, alkylsulfonyl; n = 0 - 2], to a method for producing said
     substances and to their use for controlling undesirable microorganisms.
     The procedure for the preparation of I is characterized by the reaction of
     dihalotriazolopyrimidines II (X1, Y1 = halogen) with R1GH to give I (X =
     X1) which is further reacted with (i) R4-M [R4 = (un)substituted alkoxy,
     alkylthio, alkylsulfinyl, alkylsulfonyl, CN; M = Na, K]; or (ii) R5Mg-Hal
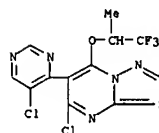

     [R5 = (un)substituted alkyl; Hal = Cl, Br] in a dil. medium. The
     invention also relates to novel intermediate products of the formulas III,
     IV (R6 = Cl-4-alkyl; R7 = alkyl, haloalkyl) and V (R8 = halo, haloalkyl;
     R9, R10 = H, F, Cl, Br, Me, Et, OMe) , in addn. to methods for producing
     said substances. Thus, triazolopyrimidine I (R1 = CHMeCHMe2, R2 = H, R3 =
     4-chloro-3-pyrimidinyl, G = S, X = Cl) was prepd. from
     dihalotriazolopyrimidine II (R2 = H, R3 = 4-chloro-3-pyrimidinyl, X1 = Y1
     = Cl) via reaction with Me2CHCHMeSH in MeCN contg. KF and K2CO3. The
     antimicrobial activity of I (R1 = CHMeCHMe2, R2 = H, R3 =
     4-chloro-3-pyrimidinyl, G = S, X = Cl) was detd. [100% inhibition vs.
     Podosphaera leucotricha at 100g/ha; 90% inhibition vs. Venturia inaequalis
     at 100g/ha; ED50 = 10 ppm vs. Botrytis cinerea].
IT   816457-18-8P 816457-19-9P 816457-22-4P
     RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP
     (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
       (preparation of triazolopyrimidines for use in controlling pathogenic
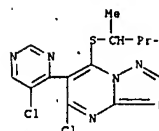   microorganisms)
RN   816457-18-8 CAPLUS
CN   [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-(5-chloro-4-pyrimidinyl)-7-
     (2,2,2-trifluoro-1-methylethoxy)- (9CI) (CA INDEX NAME)
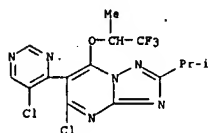

RN   816457-19-9 CAPLUS
CN   [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-(5-chloro-4-pyrimidinyl)-7-
     [(1,2-dimethylpropyl)thio]- (9CI) (CA INDEX NAME)

RN   816457-22-4 CAPLUS
CN   [1,2,4]Triazolo[1,5-a]pyrimidine, 5-chloro-6-(5-chloro-4-pyrimidinyl)-2-(1-
     methylethyl)-7-(2,2,2-trifluoro-1-methylethoxy)- (9CI) (CA INDEX NAME)

```
=> d his

     (FILE 'HOME' ENTERED AT 15:55:51 ON 10 JUL 2007)

     FILE 'REGISTRY' ENTERED AT 15:56:15 ON 10 JUL 2007
L1            STRUCTURE UPLOADED
L2          0 S L1
L3          3 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 15:57:19 ON 10 JUL 2007
L4          1 S L3

=> log y
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                             12.32        185.08

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                ENTRY        SESSION
CA SUBSCRIBER PRICE                             -0.78         -0.78

STN INTERNATIONAL LOGOFF AT 16:06:02 ON 10 JUL 2007



Connecting via Winsock to STN



Welcome to STN International!   Enter x:x

LOGINID:SSPTAJHM1624

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * *   Welcome to STN International   * * * * * * * * * *

  NEWS  1          Web Page for STN Seminar Schedule - N. America
  NEWS  2  MAR 15  WPIDS/WPIX enhanced with new FRAGHITSTR display format
  NEWS  3  MAR 16  CASREACT coverage extended
  NEWS  4  MAR 20  MARPAT now updated daily
  NEWS  5  MAR 22  LWPI reloaded
  NEWS  6  MAR 30  RDISCLOSURE reloaded with enhancements
  NEWS  7  APR 02  JICST-EPLUS removed from database clusters and STN
  NEWS  8  APR 30  GENBANK reloaded and enhanced with Genome Project ID field
  NEWS  9  APR 30  CHEMCATS enhanced with 1.2 million new records
  NEWS 10  APR 30  CA/CAplus enhanced with 1870-1889 U.S. patent records
  NEWS 11  APR 30  INPADOC replaced by INPADOCDB on STN
  NEWS 12  MAY 01  New CAS web site launched
  NEWS 13  MAY 08  CA/CAplus Indian patent publication number format defined
  NEWS 14  MAY 14  RDISCLOSURE on STN Easy enhanced with new search and display
                   fields
  NEWS 15  MAY 21  BIOSIS reloaded and enhanced with archival data
  NEWS 16  MAY 21  TOXCENTER enhanced with BIOSIS reload
  NEWS 17  MAY 21  CA/CAplus enhanced with additional kind codes for German
                   patents
```

```
NEWS 18   MAY 22   CA/CAplus enhanced with IPC reclassification in Japanese
                   patents
NEWS 19   JUN 27   CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 20   JUN 29   STN Viewer now available
NEWS 21   JUN 29   STN Express, Version 8.2, now available
NEWS 22   JUL 02   LEMBASE coverage updated
NEWS 23   JUL 02   LMEDLINE coverage updated
NEWS 24   JUL 02   SCISEARCH enhanced with complete author names
NEWS 25   JUL 02   CHEMCATS accession numbers revised
NEWS 26   JUL 02   CA/CAplus enhanced with utility model patents from China


NEWS EXPRESS   29 JUNE 2007:  CURRENT WINDOWS VERSION IS V8.2,
               CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.


NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS LOGIN    Welcome Banner and News Items
NEWS IPC8     For general information regarding STN implementation of IPC 8
```

Enter NEWS followed by the item number or name to see news on that
specific topic.

```
* * * * * * * * * * * * * * STN   Columbus  * * * * * * * * * * * * * * * * *
```

FILE 'HOME' ENTERED AT 09:49:05 ON 11 JUL 2007

```
=> file registry
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                              0.84          0.84
```

FILE 'REGISTRY' ENTERED AT 09:51:18 ON 11 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

```
STRUCTURE FILE UPDATES:   10 JUL 2007   HIGHEST RN 942116-98-5
DICTIONARY FILE UPDATES:  10 JUL 2007   HIGHEST RN 942116-98-5
```

New CAS Information Use Policies, enter HELP USAGETERMS for details.
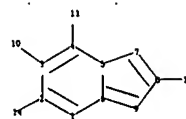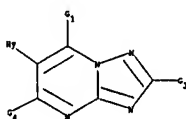
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10 series\10511774\1051174b.str

chain nodes :
10   11   13   14
ring nodes :
1   2   3   4   5   6   7   8   9
chain bonds :
2-14   3-10   4-11   8-13
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   5-7   6-9   7-8   8-9
exact/norm bonds :
1-2   1-6   2-3   2-14   3-4   3-10   4-5   4-11   5-6   5-7   6-9   7-8   8-9   8-13

G1:O,S

G3:H,X,Ak,C

G4:X,Ak,CN,O,S

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:Atom   8:Atom   9:Atom   10:Atom
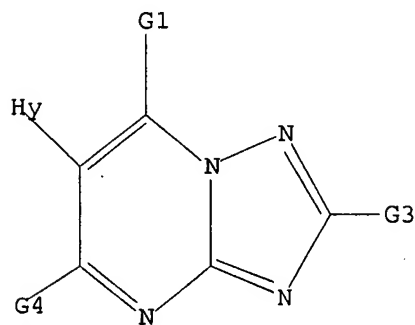11:CLASS   13:CLASS   14:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

G1
Hy
N
N
G3
G4
N
N

G1 O,S
G2
G3 H,X,Ak,C
G4 X,Ak,CN,O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 09:51:35 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   370 TO ITERATE

100.0% PROCESSED   370 ITERATIONS   3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                         BATCH   **COMPLETE**
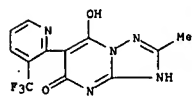PROJECTED ITERATIONS: 6246 TO   8554
PROJECTED ANSWERS: 3 TO   163

L2   3 SEA SSS SAM L1

=> d scan

L2   3 ANSWERS   REGISTRY   COPYRIGHT 2007 ACS on STN
IN   [1,2,4]Triazolo[1,5-a]pyrimidin-5(1H)-one, 7-hydroxy-2-methyl-6-[3-
      (trifluoromethyl)-2-pyridinyl]- (9CI)
MF   C12 H8 F3 N5 O2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0